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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/698,556	11/03/2003	Kaoru Okitaka	00862.023292.	1114
5514 7590 11/09/2007 FITZPATRICK CELLA HARPER & SCINTO			EXAMINER	
30 ROCKEFELLER PLAZA			MEYERS, JAMES A	
NEW YORK, NY 10112			ART UNIT	PAPER NUMBER
			2622	
	,			
			MAIL DATE	DELIVERY MODE
			11/09/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
10/698,556	OKITAKA, KAORU	
Examiner	Art Unit	
James A. Meyers	2622	

The MAILING DATE of this communication appears on the cover sheet with the correspondence address
THE REPLY FILED 29 October 2007 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.
1. The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:
a) The period for reply exires <u>6</u> months from the mailing date of the final rejection.
b) The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.
Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).
Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee has been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as the in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce are earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL
2. The Notice of Appeal was filed on A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a). AMENDMENTS
3. The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will <u>not</u> be entered because (a) They raise new issues that would require further consideration and/or search (see NOTE below); (b) They raise the issue of new matter (see NOTE below);
(c) They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
(d) They present additional claims without canceling a corresponding number of finally rejected claims. NOTE: (See 37 CFR 1.116 and 41.33(a)).
4. The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL -324).
5. Applicant's reply has overcome the following rejection(s):
6. Newly proposed or amended claim(s) would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
7. Tor purposes of appeal, the proposed amendment(s): a) will not be entered, or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended. The status of the claim(s) is (or will be) as follows:
Claim(s) allowed: Claim(s) objected to:
Claim(s) rejected:
Claim(s) withdrawn from consideration:
AFFIDAVIT OR OTHER EVIDENCE
8. The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will <u>not</u> be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
9. The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
10. The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached. REQUEST FOR RECONSIDERATION/OTHER
11. The request for reconsideration has been considered but does NOT place the application in condition for allowance because: the arguments do not overcome the previous rejection.
12. Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s) 13. Other:

DETAILED ACTION

This action is in response to the amendment dated October 29, 2007. Claim 1 is pending.

Response to Arguments

- Applicant's arguments filed October 29, 2007 have been fully considered but they are not persuasive.
- 2. In response to the argument that <u>Fan</u> does not teach or suggest a plurality of tetrahedral solid elements, each of which has a single-layered structure in a plate thickness direction, generated by dividing an input three-dimensional CAD geometric analytical model which has a thin-walled structure: <u>Fan</u> discloses a geometric model conversion method that takes, as an input, a three dimensional CAD geometric analytical model (see abstract). Both <u>Fan</u> (Figure 8) and <u>Yu</u> (Figure 6) disclose three-dimensional CAD models where a single element encompasses the entire plate thickness of the model. While the methods of <u>Fan</u> and <u>Yu</u> themselves do not use a plurality of tetrahedral solid elements, the background of <u>Fan</u> clearly discloses that it was well known in the modeling art at the time of invention to use tetrahedral solid elements to create a solid mesh (column 1, lines 40-45). Viewing the above, one of ordinary skill immediately would have recognized that such a solid mesh could be generated with a single layered structure in the plate thickness direction, as done with the two dimensional mesh used by both <u>Fan</u> and <u>Yu</u>.

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analytical model.

3. In response to the argument that <u>Fan</u> does not teach or suggest a plurality of triangular shell elements or rectangular shell elements as a two-dimensional analytical model being generated by connecting intermediate nodes of sides that extend in a direction of plate thickness in each tetrahedral solid element: <u>Fan</u> discloses that it was well known in the art at the time of the invention to create a mid-plane surface of the solid model (column 2, lines 27-36). <u>Fan</u> also discloses triangular shell elements created by connecting intermediate nodes of sides that extend in a direction of plate thickness (Figure 3). Although the polyhedrons used in Figure 3 are indeed pentahedral, <u>Fan</u> had previously disclosed that tetrahedral solid elements were commonly used in such modeling (see above). From these observations, one of ordinary skill in the art at the time of invention would recognize that one method of generating a mid-plane surface in a model consisting of tetrahedral solid elements would be to connect the intermediate nodes of the tetrahedrons. The resulting polygons would be triangular or rectangular shell elements and would result in a two-dimensional

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4. Therefore, the rejection of Claim 1 is sustained.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Meyers whose telephone number is (571) 270-1690. The examiner can normally be reached on Mon-Thurs 8AM-5:30PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, NgocYen Vu can be reached on (571) 272-7320. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

11/1/2007 JM

SUPERVISORY PATENT EXAMINER

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